Site-specific Recreator Equation Inputs for Surface Water

Variable	Value
TR (target cancer risk) unitless	0.000001
ED _{recw} (exposure duration - recreator) year	26
ED _{recwa} (exposure duration - adult) year	20
ED _{recwc} (exposure duration - child) year	6
ED ₀₋₂ (mutagenic exposure duration) year	2
ED ₂₋₆ (mutagenic exposure duration) year	4
ED ₆₋₁₆ (mutagenic exposure duration) year	10
ED ₁₆₋₃₀ (mutagenic exposure duration) year	10
THQ (target hazard quotient) unitless	1
LT (lifetime - recreator) year	70
EF (exposure frequency) day/year	46.154
EF _{recwa} (adult exposure frequency) day/year	60
EF _{recwc} (child exposure frequency) day/year	0
EF ₀₋₂ (mutagenic exposure frequency) day/year	0
EF ₂₋₆ (mutagenic exposure frequency) day/year	0
EF ₆₋₁₆ (mutagenic exposure frequency) day/year	60
EF ₁₆₋₃₀ (mutagenic exposure frequency) day/year	60
ET _{recw-adj} (age-adjusted exposure time) hour/event	6.154
ET _{recw-madj} (mutagenic age-adjusted exposure time) hour/event	6.154
ET _{recwa} (adult exposure time) hour/event	8
ET _{recwc} (child exposure time) hour/event	0
ET _{recw0-2} (mutagenic exposure time) hour/event	0
ET _{recw2-6} (mutagenic exposure time) hour/event	0
ET _{recw6-16} (mutagenic exposure time) hour/event	8
ET _{recw16-30} (mutagenic exposure time) hour/event	8

EV _{recwa} (adult) events/day	1
EV _{recwc} (child) events/day	0
EV ₀₋₂ (mutagenic) events/day	0
EV ₂₋₆ (mutagenic) events/day	0
EV ₆₋₁₆ (mutagenic) events/day	1
EV ₁₆₋₃₀ (mutagenic) events/day	1
BW _{recwc} (body weight - child) kg	15
BW _{recwa} (body weight - adult) kg	80
BW ₀₋₂ (mutagenic body weight) kg	15
BW ₂₋₆ (mutagenic body weight) kg	15
BW ₆₋₁₆ (mutagenic body weight) kg	80
BW ₁₆₋₃₀ (mutagenic body weight) kg	80
SA _{recwc} (skin surface area - child) cm²	6378
SA _{recwa} (skin surface area - adult) cm²	20900
SA ₀₋₂ (skin surface area - mutagenic) cm ²	6378
SA ₂₋₆ (skin surface area - mutagenic) cm ²	6378
SA ₆₋₁₆ (skin surface area - mutagenic) cm²	20900
SA ₁₆₋₃₀ (skin surface area - mutagenic) cm ²	20900
SA ₀₋₂ (mutagenic skin surface area) cm²	6378
SA ₂₋₆ (mutagenic skin surface area) cm ²	6378
SA ₆₋₁₆ (mutagenic skin surface area) cm ²	20900
SA ₁₆₋₃₀ (mutagenic skin surface area) cm ²	20900
IFW _{rec-adj} (age-adjusted water intake rate) L/kg	6
IFWM _{rec-adj} (mutagenic age-adjusted water intake rate) L/kg	12
DFW _{rec-adj} (age-adjusted dermal factor) cm²-event/kg	313500
DFWM _{rec-adj} (mutagenic age-adjusted dermal factor) cm²-event/kg	627000
IRW _{recwa} (water intake rate - adult) L/hr	0.05
IRW _{recwc} (water intake rate - child) L/hr	0.05
IRW₀₂₂ (mutagenic water intake rate) L/hr	0.05
IRW₂-6 (mutagenic water intake rate) L/hr	0.05
IRW ₆₋₁₆ (mutagenic water intake rate) L/hr	0.05
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IRW ₁₆₋₃₀ (mutagenic water intake rate) L/hr	0.05
l _{sc} (apparent thickness of stratum corneum) cm	0.001

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Site-specific

Recreator Screening Levels (RSL) for Surface Water

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),

ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,

Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

						SFO	Subchronic RfD	Subchronic RfD	Subchronic RfC
Chemical	CAS Number	Mutagen?			(mg/kg-day) ⁻¹	Ref	(mg/kg-day)	Ref	(mg/m³)
Antimony (metallic)	7440-36-0	No	No	Inorganics	-		4.00E-04	<u> P</u>	
Arsenic, Inorganic	7440-38-2	No	No	Inorganics	1.50E+00	I	3.00E-04	<u> </u>	1.50E-05
Barium	7440-39-3	No	No	Inorganics	-		2.00E-01	Α	5.00E-03
Beryllium and compounds	7440-41-7	No	No	Inorganics	_		5.00E-03	H	2.00E-05
Cadmium (Water)	7440-43-9	No	No	Inorganics	-		5.00E-04	1	1.00E-05
Calcium	7440-70-2	No	No	Inorganics	_				
Chromium, Total	7440-47-3	No	No	Inorganics	-			•	
Cobalt	7440-48-4	No	No	Inorganics	_		3.00E-03	P	2.00E-05
Copper	7440-50-8	No	No	Inorganics	-		1.00E-02	Α	
Iron	7439-89-6	No	No	Inorganics	_		7.00E-01	Р	
Lead and Compounds	7439-92-1	No	No	Inorganics					
Magnesium	7439-95-4	No	No	Inorganics	_			_	
Manganese (Non-diet)	7439-96-5	No	No	Inorganics			2.40E-02	S	5.00E-05
Mercury (elemental)	7439-97-6	No	Yes	Inorganics	_			_	3.00E-04
Molybdenum	7439-98-7	No	No	Inorganics	and the second of the second of		5.00E-03	Н	
Nickel Soluble Salts	7440-02-0	No	No	Inorganics	_		2.00E-02	Н	2.00E-04
Potassium	7440-09-7	No	No	Inorganics					
Selenium	7782-49-2	No	No	Inorganics	_		5.00E-03	Н	2.00E-02
Silver	7440-22-4	No	No	Inorganics		anning and	5.00E-03	Н	
Sodium	7440-23-5	No	No	Inorganics	_			_	

Thallium (Soluble Salts)	7440-28-0	No	No	Inorganics		4.00E-05	S	
Vanadium and Compounds	7440-62-2	No	No	Inorganics	_	1.00E-02	A	1.00E-04
Zinc and Compounds	7440-66-6	No	No	Inorganics		3.00E-01	A	

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Subchronic RfC Ref	RAGSe GIABS (unitless)	K _p (cm/hr)	MW	FA	In EPD?	DAeventc	DAeventnc	DAeventna	Ingestion SL TR=1.0E-6 (µg/L)
	0.15	0.001	121.76	1	Yes		Tana Santa Madalahan	0.0013971	
С	1	0.001	74.922	1	Yes	0.0000543	_	0.0069856	2.84E+00
Н	0.07	0.001	137.33	1	Yes		- man -	0.3259968	
	0.007	0.001	9.01	1	Yes		-	0.000815	
Α	0.05	0.001	112.41	1	Yes		-	0.0005821	
		0.001	40.078	1	Yes		_		
	0.013	0.001	52	1	Yes			-	
P	1	0.0004	58.93	1	Yes			0.0698565	
	1	0.001	63.55	1	Yes			0.2328549	
	1	0.001	55.85	1	Yes		_	16.299841	
	1	0.0001	207.2	1	Yes		-		
	1	0.001	24.305	1	Yes		_		
	0.04	0.001	54.94	1	Yes		_	0.0223541	
H	1	0.001	200.59	1	Yes		_		
	1	0.001	95.94	1	Yes	and Statement and Statement		0.1164274	
A	0.04	0.0002	58.69	1	Yes			0.0186284	
	1	0.002	39.1	1	Yes	The state of the s		-	SA CONTRACTOR OF THE PROPERTY
С		0.001	78.96	1	Yes		_	0.1164274	
	0.04	0.0006	107.87	1	Yes			0.0046571	
	1	0.001	22.99	1	Yes		_	_	

	1	0.001	204.38	1	Yes		- 0.0009314	
Α	0.026	0.001	50.94	1	Yes		- 0.0060542	-
	1	0.0006	65.38	1	Yes	•	- 6.9856459	

Dermal SL TR=1.0E-6 (μg/L)	Carcinogenic SL TR=1.0E-6 (µg/L)	Ingestion SL (Child) HQ=1 (µg/L)	Dermal SL (Child) HQ=1 (μg/L)	Noncarcinogenic SL (Child) HQ=1 μ(g/L)	Ingestion SL (Adult) HQ=1 (µg/L)	Dermal SL (Adult) HQ=1 (μg/L)
	-			-	4.87E+02	1.75E+02
8.83E+00	2.15E+00		_	-	3.65E+02	8.73E+02
	-	•	<u>.</u>		2.43E+05	4.07E+04
	_		_	_	6.08E+03	1.02E+02
					6.08E+02	7.28E+01
	-		-	_		-
	_			_	3.65E+03	2.18E+04
	-		-	•	1.22E+04	2.91E+04
					8.52E+05	2.04E+06
	-	•		-		-
	-		-		2.92E+04	2.79E+03
	_		_	-		_
	-		-	-	6.08E+03	1.46E+04
	-		_	-	2.43E+04	1.16E+04
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	_		-	-	6.08E+03	1.46E+04
					6.08E+03	9.70E+02
	-		_	_		_

-	_	•	•	_	4.87E+01	1.16E+02
-	-	-	-	_	1.22E+04	7.57E+02
		·	-	_	3.65E+05	1.46E+06

Noncarcinogenic SL (Adult) HQ=1 (µg/L)	Screening Level (µg/L)
1.29E+02	1.29E+02 nc
2.57E+02	2.15E+00 ca
3.49E+04	3.49E+04 nc
1.00E+02	1.00E+02 nc
6.50E+01	6.50E+01 nc
	- -
3.13E+03	3.13E+03 nc
8.58E+03	8.58E+03 nc
6.01E+05	6.01E+05 nc -
2.55E+03	2.55E+03 nc
4.29E+03	4.29E+03 nc
7.87E+03	7.87E+03 nc
4.29E+03	- 4.29E+03 nc
8.37E+02	8.37E+02 nc

3.43E+01	3.43E+01 nc
7.12E+02	7.12E+02 nc
2.92E+05	2.92E+05 nc